

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA

Division Director

July 19, 2016

Karin Madsen, Resident Agent West Ridge Resources, Inc. P.O. Box 910 East Carbon, Utah 84520-0910

Subject: 2015 Annual Report Review Completion, West Ridge Mine, C/007/0041, Task ID

<u>#5106</u>

Dear Ms. Madsen:

The Division staff has completed the review of the 2015 Annual Report. Enclosed is a copy of the review with each reviewer's comments.

The Annual Report did not include any 2015 subsidence reports as detailed in the West Ridge MRP Volume 2, Chapter 5, pages 5-23 thru 5-26. The four reports included in the annual report are the same as included in the 2014 annual report. Please submit 2015 survey data, subsidence map and summary report by no later than August 19, 2016.

Thank you for your diligence in completing the Annual Report. If you have any questions, please call me at (801) 538-5325.

Sincerely,

Daron R. Haddock Coal Program Manager

DRH/sqs Enclosure

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Haddock

Print Form	Submit by Email	Reset Form
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Annual Report

2016.

This Annual Report shows information the Division has for your mine. Submit the completed document and any additional information identified in the Appendices to the Division by the date specified in the cover letter. During a complete inspection an inspector will check and verify the information.

GENERAI	LINF	ORMATION	-				
Company N	Name	West Ridge Resources			Mine Name	West Ridge Mine	
Permit Nun	nber	C/007/0041			Permit expiration Date	4-1-2019	
Operator N	lame	West Ridge Resour	ces, Inc.		Phone Number	+1 (435) 888-4000	
Mailing Add	dress	P.O. Box 910			Email	kmadsen@coalsource.com	
City		East Carbon					
State		UT	Zip Code 84520				
					DOGM File Locati	on or Annual Report Location	
Ex	cess S	Spoil Piles	☐ Required☑ Not Required				
	Refu:	se Piles	☐ Required ☐ Not Required				
In	Impoundments —		⋉ Required ⋉ Not Required	Sedimen	Sediment Pond Annual Certification included.		
Other:					7		
OPERATOR C	оммі	ENTS	_				
REVIEWER CO	OMME	NTS 🖂	Met Requirements		Did Not meet Requiremen	nts	
impoundmer were noted ir Cell A's accun	nt was n the re nulate	inspected on Nove eport. Sediment lev d sediment elevation	mber 19th, 2015. No vels were reported be on is approximately 6'	evidence of the book the below the	of instability, structural w 9% clean-out elevation fo e clean-out elevation (6,9	ual Report. The primary West Ridge eakness or other hazardous conditions r both Cell A (upper) and Cell B (lower). 036.4' vs 6,942.8' respectively). Cell B's rs 6,928.8' respectively). skc-June 28th,	

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

Title: EXPERIMENTAL FIELD TRIALS
Objective: Monitoring to support proposed experimental practice. Provide a comparison of growth on field trials
with Douglas/Fir reference area.
Frequency: Annual evaluation in June
Status: Ongoing
Reports: Provide in annual report
Citation: MRP, Volume 1, Appendix 2-6 and Volume A, Map 2-4
Operator Comments
The required Vegetation Monitoring at the Experimental Test Plot was prepared by mt. Nebo Scientific, and is included.
Reviewer Comments Met Requirements Did Not Meet Requirements
4/22/16, LR: The "Vegetation Monitoring at the Experiments Test Plot" report was provided and revealed conditions are about the same
as they have been in the previous years. The continuation of this study provides little value since the experiment of cut/fill over the existing top soil has occurred and the site has stabilized. The operator may elect to discontinue this study at their request.
lexisting top soil has occurred and the site has stabilized. The operator may elect to discontinue this study at their request.
TWO COU CAMPLING OF FULL ATTA TO AND TO
Title: SOIL SAMPLING OF FILL AT T1, T2 AND T3
Objective: To protect buried substitute topsoil in the fill. Collect a composite sample from several locations near
each site to obtain a more average value.
Frequency: Annual evaluation during field season.
Status: Ongoing beginning in 2010.
Reports: Annual report
Citation: MRP, Volume 1, Appendix 2-6 addendum, pg. 3 and Volume A, Map 2-4
Operator Comments
The Soil Sampling of Fill at T1, T2, and T3 were prepared by Mt. Nebo Scientific, and is included.
The son sumpling of thirde (1), 12, and 15 were prepared by Mic Nebb Scientific, and is included.

Reviewer	Commen	ts 🗵] Me	et Requirements			Did Not Meet Requirements
return to the	ne same loc over time a a and varie	ations e at each lo s little bo	each year ocation i	r. This is not always po is provided in Table 1.	ossible, as detaile This table is ver	ed in the y reveal	erneath 50 feet of coal. An effort has been made to e report. The mean and standard deviation for each ling. It demonstrates that the pH varies little within varies little from the one provided on Table 2,
locations. I T3 having s	However, th similar CaC(he CaCO O3 value	3 percer es. Meas	ntage is even more var urement of CaCO3 at 1	riable between s the Experimenta	ites, wit I Test Pl	s, probably due in part to the varying sample th T2 having the lowest CaCO3 content and T1 and Plot (Table 2) was also accompanied by a large ed with the analytical procedure.
attributed t 2.70 dS/m.	to road salt T2 is out o	ing at T3 f the traf	3. Elevat ffic patte	ed EC at T1 in 2001 an	nd 2009 was likel by road salt. It i	y due to s adjace	e standard of deviation. The variation in EC is o the same reason. The mean EC over time for T2 is ent to the coal pile and as the analysis indicates, EC t location T2.
	dard deviat	ion of 10	0.35. (In	2015, the T3 SAR was			mean SAR value at T3 over time is 8.99 which has a ous year.) Both T1 and T3 locations should be
One conclu	ision that is	very cle	ar: the c	perator should seek a	salt substitute f	or treati	ting roads in winter.
							A LANGE WILLIAM TO A COMMITTEE
Frequenc Status: Or Reports: a	r y: annual ngoing annual re _l MRP, Volu	port ume 2,		and vertical move		nan six	x inches per year.
Subsidence	: Monitorin	g inform	nation is	included.			
Reviewer (Comment	ts 🔲	Me	t Requirements			Did Not Meet Requirements
the 2014 Ar	nnual repor	t. The P	ermittee	has not addressed th	e requirements	of this c	ts included in the annual report are the same from commitment as detailed within the West Ridge MRP y data, subsidence map or summary report.
area within established effects of su	the Permit and that W ubsidence.	Area. Ti Vest Rido The Peri	he MRP o ge resou mittee w	details that in October rces would continue t	r 2000 thirteen p o conduct annua ce data and conto	ermane al surve oured n	o a map to depict the net change in elevation of the ent subsidence monitoring control points were eys in the fall of each year to monitor the surface map or map detailing the location of the various thin the MRP. (CP)

Title: Raptor Survey

Objective: Locations within the permit area that contain potential raptor nesting habitat will be surveyed in the field within one year of any proposed mining activity that could result in subsidence. Should any nests be found, West Ridge Resources, Inc. would consult with the Division (DOGM), the Division of Wildlife Resources and the US Fish and Wildlife Service.

Frequency: One year prior to subsidence.

Status: Ongoing

Reports: Annual report

Citation: Chapter 3, Page 3-8 & 3-9

Operator Comments

Raptor Surveys were completed in May, 2015 by EIS, and the report is included within the CONFIDENTIAL file.	
Reviewer Comments	
Met Requirements	
☐ Did Not Meet Requirements	
4/22/16, LR: Raptor surveys were preformed and the report was submitted as required. Two active Golden Eagle nests were located and successfully hatched chicks.	

FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

Title: RECLAMATION MONITORING

Objective: Visually assess the revegetation success.

Frequency: Quarterly for the first three years and annually in June of each year thereafter

Status: Implement at reclamation

Reports: Annual Report

Citation: MRP, Volume 1, Chapter 3, page 3-16, paragraph 2

Title: MEXICAN SPOTTED OWL SURVEY

Objective: Conduct appropriate surveys for Mexican spotted owls on the lease tract areas with 40 percent or greater slopes, cliff habitat areas, riparian habitats, and mixed conifer forest habitats, prior to any future surface disturbing activity and/or any mining activity with the potential to interrupt surface spring flows. Inventory work must be conducted by parties approved and permitted for such survey work by the Fish and Wildlife Service and qualified in accordance with R645-301-132. Surveys must follow current protocol established by Fish and wildlife service.

Frequency: As needed Status: ongoing

Reports: Annual

Citation: Permit condition attachment A, special condition #3.

Title: SOIL SAMPLING OF FINAL GRADED FILL AT CATCHMENTS A, C AND E

Objective: At final reclamation, the reclaimed surface soils of the catchments will be tested for pH, EC and SAR to allow for the evaluation of the salinity and the need for a revision or addition to the final seed mix to enhance germination and establishment.

Frequency: Once after final grading

Status: Future commitment

Reports: Provide information to the Divi	sion		
Citation: MRP, Volume 2, Appendix 5-15		e 14	
Citation With , Volume 2, Appendix 5 15	Actuellinent 5, pag		
OPERATOR COMMENTS (OPTIONAL)			
REVIEWER COMMENTS			

REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:			
Reviewer Comments			

MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

		Included		Confidential				
Map Name	Map Number	Yes	No	Yes	No			
Annual subsidence map			\boxtimes					
Mine Map		\boxtimes			\boxtimes			
Reviewer Comments								
The MRP details that a photogrammetic subsidence readings will be contoured into a map to depict the net change in elevation of the area within the Permit Area. The MRP details that in October 2000 thirteen permanent subsidence monitoring control points were established and that West Ridge resources would continue to conduct annual surveys in the fall of each year to monitor the surface effects of subsidence. The Permittee will submit a subsidence data and contoured map or map detailing the location of the various monitoring points for reference to meet the state annual commitments outlined within the MRP. (CP) The Permittee included a mine map that is not legible. The Permittee will include a mine map with the approximate dates associated with panels to be mined. Planned mining operations are shown on the supplied mine map but lack any timing projection information and clear labels. The mine map does not meet the Division's annual requirements to show at least five years of projected mining annually. (CP)								